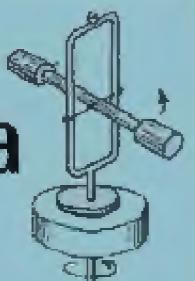
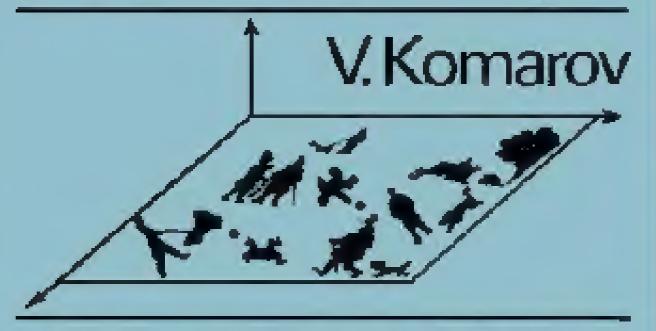
# ciencia popular

Nueva astronomía recreativa





El autor de este libro aspira, con ayuda de la ciencia a feción, a afraer la atención especial de los lectores a ciertos problemas de la astronomía moderna, reanimar asos problemas hacer-los más satientes, facilitande así su comprensión. El autor espera que su idea tendra resonancia entre los fectores.

Editorial · Mir · Moscú



# в. н. комаров Новая Занимательная астрономия

MOCKBA «HAYKA»

# ciencia popular

# Nueva astronomía recreativa V.Komarov

Producido del ruso por el ingentiro it A. Sifrebevski

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на перавском ламко

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### Del autor

La estronomía es no sólo atractiva, sino sumamente instructiva. Fue una de las primeras ciencias nacidas en el alba de la humanidad, y siempro permaneció en la primera linea del frente del

conocimiento de la naturaleza.

La ciencia astronómica moderna se desarrolla especialmente en rituto impetuoso. Gracias a la aparición de los asevos medios de investigaciones, desde los radiotolescopios basta los distintos aparatos cósmicos. La affaencia de información del cosmos ha aumentado bensenmente, y los descubrimientos en la esfera del estudio del Universo vienes de hecho uno tras otro.

Estos descubrimientos representan especial interés, dede que la astronomía nos da los conocimientos fundamentales sobre la naturaleza, es decir, pone al descubierto las leyes generales más profundas de la estructura y el movimiento de la

materia.

Sin embargo, la astronomía no sólo nos arma de las nociones modernas de cómo es el mundo, sino representa uno de los ejemplos más brillantes del carácter dialéctico del proceso del conocimiento de la naturaleza que nos rodes, del movimiento de los verdades relativas a la absoluta.

La teron del presente libro consiste en no sólo comunicarla al lector una serie de beches astro-

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he le estronomia produces trons lugar an

proceso que con una fuerza especial se na desareollado cun entes en la fisica. Las nociones cientificas del Universo se hecen cada vez más abstractas, menos evidentes, más difficiles para la compreneión.

Por eso el autor un decidido recutrir a un método un poco insólito para la literatura de dividgación científica: la ciencia-ficción. Una de sus cualidades positivas es la capacidad de dar materialidad y evidencia a las ideas más abstractas

El autor aspira, con ayuda de la cienclaficción, a atraer la atención especial de los luctores a ciertos problemas de la astronomía moderna, reanimar esos problemas, nacerlos mas salientes facilitando así su comprensión

El autor espera que so idea tendrá resonancia

ontre los lectores.

#### CAPTURO I

# Lo recreativo y la astronomía

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La revolución más grando en las ciencias patura en en el limito de les aigins XIX y XX, la aperatión de las teorías físicas munera da principio, talos como la teoría de la relatividad y la mechnica cuántica no sólo ampliaron comidarablemente las nociones científicas del mundo sinu combiacon raucho también el misio del pentermento científico. La concepción del estadio de los lenómenos parecejos

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ec hizo el fundamento de todas las ciencias nati - rales a odernas.

Un ejemplo más que flustra con ovidencia el principio de Copérnico. El Sol en el firmamento nos parere un disco relativamente pequeño, casi iguil al de la Luna. No obstante, es sólo ma ilusión, el resultado de que el Sol está situado a una distancia 400 veces minyor que nuestro astro nocturno. Se observácamos el Sol desde la órbita de Plutón, el pluneta más lejano de, sistema solar, nos parecería un punto.

¿Y los estrellas? Parecen puntos hasta al observarias er los telescopios más potrotes. Y hay entre

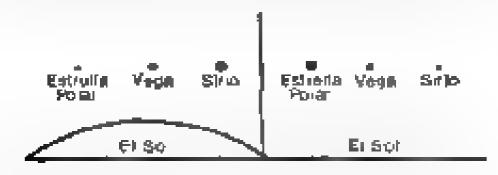


Fig. 1 Luminosidad visible de les estrettes en función de la distancia.

ellas gigantes el tamaño de las cuales es millones y mules de mullones de veces mayor que el del Sol. Todo resido en las enormes distancias

en les luntinosidades de les estrelles observades por nosotros. Unas estrelles parecen más luminosas, otras menos. Pero este hocho por su no dice made sobre la cantidad de lux que realmente emuen. Citomos un ejor plo. Aqui tenes pos cuetro estrelles conocidas por todos: ol Sol, nuestra extrelle más luminosa. Sicio, la estrelle más britante tel clelo nocturno, Vega do la constelación de Lira (4 veces más débil que Surio) y la estrelle Polar, la más débil de estos cuatro estres (6 veces más débil que Vega)

Pera al pudidenmos a tuar estas ouatro estrulles a una distancia ignal de la trerra, lei drimitos que ha er la total erectadan de los va crese. Li preser lugar la occiparia la estrolia l'olor. Vega y Sirio sa carabiarian de legar, y el Sol as quadorta atria......

Pero en general, el aspecto acterior de un astero pueda por hautante i univo. La munida luiso de proctas l'emans prateche a cuer sa compensea cosmica. En las porbes luires, en el porcedo de plumilance, los objetos terrostres haces a la las de la Luna apas apparas accis do-finidas....

La restauad la superfecte Juner reflaga tan aclo-

ella

In las coud ciones cortinutes de la Tierra, llenames negre o por la monos gras ascuro el objeto que refle, i monos de una decuna parte de las rayes luminoses

In presente la superficie hinar es obtenta La plest guan las imágenes do television l'ansemitidad de la l'une por les estes ancienta il an noviéticas y nortempericables, los présidant taurbiés les observas ques de les estrapoutes nortenméricanos.

ha quas a recip verdad no adas las rocas limapes son degras. Har amort les y marrones. Aus man el color de la emperficia becar depende es icho del asgute de cai in de les espos soluces. Dict e a propuento, el color de la bema, medido objectivamen el es arrac llo que uro

Con toda seto, spor quá la l'ana en el cielo terrestra pot paraca i a setra brillanta" Súas pot contraste con el foudo regro del como rectorno

que la rades...

t un tiusión astronómico más vanto uno, por supresto, o morvó mas lo una vez on el ciulo la tella Venas, costrolas matical y sespectiva Como un punto muy luminoso se vo ella a la salida o la puesta del Sol. Pero u tremos Venus con ayuda de un telescopio. Las más de las veces veremos una boz parecida a la de la lima nueva...

Pero no puede ser de otra manera. Es que en el período de su visibilidad Venus se sitúa fuera de la línea que une la Tierra con nuestro estro



Fig. 2 Folografia del planeta Venus

direno. Por eso no podemos ver, de magnas manoro, toda la mitad del pianeta fluminada por el
Sol. Esto será posible sólo chando Venus se halle
al otro isdo del Sol. Pero entonces se pierdo en
sus rayos brillantes y no la podemos observar
por completo.

Von is nos perces semejanto a una estrella sólo gracias al hacho de que nuestro ojo, doudo a la gran distancia, no es capaz de percebir el contor-

no verduciero do la lioz de Venus.

La ilusión óptica puede surgir también dutanto las observaciones telescopicas. Uno de los ejemplos más briliantes es la célebre historia del descu-

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La puesa camefiniment en consecutiva del sentido comun da la ciencia fina relle, ada gustamente.

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brez una batalle inevitable tamb én con los nociones mausles, el ventido comun corriente.

En lo que se trata de la evicencia, cuente más se desarrolla la ciercia, sobre toda la física y la astronomía, tanto en mayor grade nos negamos do todo lo que puede representarse y siblemente. Fato prede causer disgustos, hasta irritar, pero no hay otra selida.

Es estreño el mindo de la física modernel. Fir i a mundo cuevo, en el cual es muy dificil y hasta imposible imaginame avidenterrente muchas cuesa, el mundo no sóto de la física, sino de la astronomía modernes. La ciencia va ha pisado

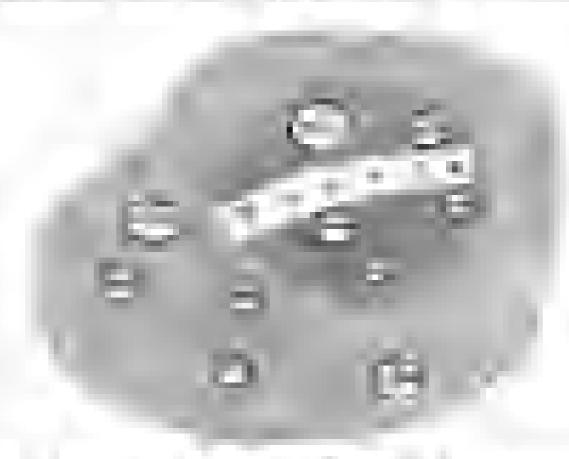
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Y alguloudo los a levos describrimientos sorprendertes, contra los cuales como escateva na pocas veces auestro sentido comúa, ya que no emputen con los nectores corrientes munca debemas a vider que cada sentido comúa incluye luevicablemante errores.

#### De feoria a feoria

Como ya hemos diche la anacición de hechos nuevos de princip o trasplicables destro da los marros de la teoria existente, con tirco a la elaboración de una teoria más general que sabsorbes también las nociones anteriores.

Come setate el cosa diopo savierro A. L. Zel morov, el en el pro, mo de conocim ento resulta que cierte grupo de loyas puede deducirso de les leyas mas generales, este no quiere decir de ninguia manera que las primeras se reducen totalmente a las segunlas. Tienes su carácter es recifico. Con otras palabras, la scapar ded de de duce cas no se todas la simple crapacidad de reduceións. La correlación entre las teorias par ticulares y generales se mucho más complicada.



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#### L'APPULO U

## La familia del Sol

### La tierra y el péndule

La historia de la ciencia conoca no pocos prohiemas, cuya so unión necesitó un tratajo sem lar de las mentes avantas las de la hisma ituad y una larga lucha con acciones errónece. Se lograda la claridad gracias a unos estuersos increibles, c'ero en reachos casas, más tardo, se pudo obtener un recentados casas, más tardo, se pudo obtener pros, e en candad de unas comecueno as bastante elementados de una descubrimientos y logras mas modernos

A to en problemas percentes tumbien el de la retación de la literra alredator del propie eje. El beche de que la genie no pudo demostrar durante largo tien po que vivo en in planeta girategia, no se tan trivial como puede paracer a

primera vesta

pueden revelurse acemenaciones talacadas con la rotación (las llemadas aceleraciones de Coriolia). Procasamente esas aceleraciones provocan por ejemplo la acesación de las riberas desectas de los ripa en el ficial ferio berest de la Tierra y las impuesdas, en el austral

Puro, primoro, las acolerociones de Comolis so mentitestan acido di tenta la traslación de los tuerpos, y seguido, arrien sólo de un tes inionio seculcario de la rotecion de munitro pianeta. and a streambers on any accordance to the property of the second of the

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el giro del plano de escilación del péndulo, del idoa la cotación de la T erra, se necesita un tier ipohastante largo.

A principios de los años e rei ento, el ngen ero savesto. Post ejúnov propuso un instrumento o igual para comprobar la rotación diaria de

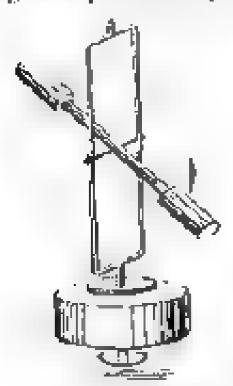


Fig. 4 Pándule de Poshe-Jánev

nuastro planeta. En esen cia es el mismo pendulo, pero de 1.po est cria. y la propta comprobación es funda en un principio compretamente deference

imaginense un bestider situade verticalmante montade sobre un seporte y capaz de girar
con respecte a éste alrededor del eje vertical illi
al centro del bastidor,
cu un eje horizontal, está
sujutada una varilla con
pequeñas pesas en los
extremos, que gira libremente. Aquí esta todo el

instrumento. ¿Pero cómo funciona? La acción de esta penduro peculiar se basa a i el principio de conservación del momento de la cantidad movembre to.

El momento de la cantidad de movimiento es or producto de la masa del cuerpo de la masa de respectación. Pero la ve ocidad lineal en igua, al producto de R por la velocidad angular o (V = Ro).

AsI,  $V = m\omega R^*$  siendo m ima magnitus constante

Anora aupongamos que el redio R d sminuyo, es decir, al cuerpo se aproxima el eje de retación.

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A perparente anciente dura ate las observaciones det circlo a e dia la atradicion sobre montros está in in a communia y la traves de la la se ce e fiel, pero no plesde pasar fa fila de al de las citades fieles l'onnas. I pero mo contro contro en la la la la la la de la la describação del hacizonias y la la la la la la pero el arrol está apagas. In atradeca se la la describação para la la la dispersona para el arrol está apagas. In atradeca se la la describação para de arrol está apagas. In atradeca se la la describação para de arrol está apagas. In atradeca se la la describação para de arrol está apagas. In atradeca se la la describação para de arrol está apagas. In atradeca se la la describação para de arrol está apagas.

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# Nuevos datos sobre el meteorito del Tunguska

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### El destino de una hipólistis

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Tous la histor a del estudio de Fohas y Deunos está l'ena de secatecina entes maravel escriptorial atrayantes. L'anguent extrebus edistrica la principal de distributes entre en establica en nueva con de Marte aparecció na en las obras científicas entre en las páginas de los cá obras eY apre de Guillevers exercios por Junatan

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Fig. 5. Saidhle de Marie Fobos

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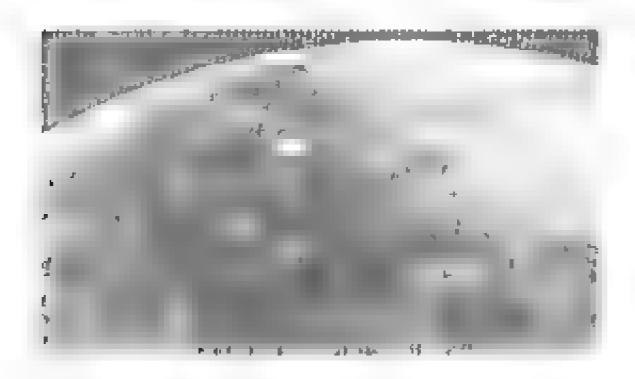
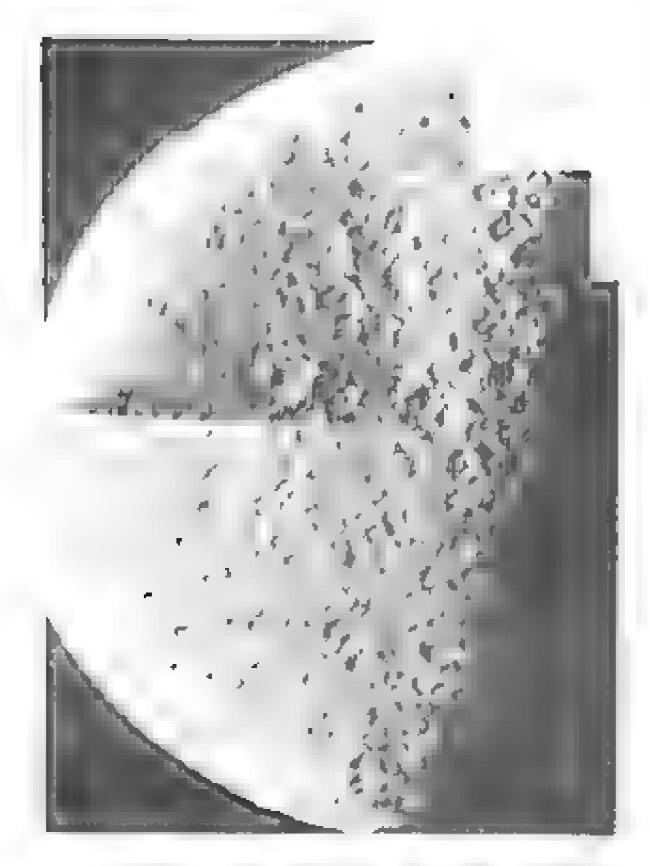


Fig. 6 satellite de la partia Caude (Foto tomado por la cale mich voyager 11)

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lenomeno característico tanto para los planetas dos grupo terrestre como para los satelites de los planetas gigantes l'ero en este caso surge una pregunta con pletamente matural por qué en questro planeta, la lierra, no hay semejantes formaciones antilares?

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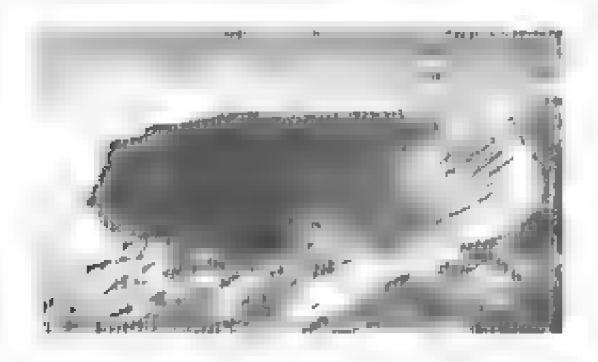


Fig. 8 Crater meteoritico de Anzone.

A liorra Uno de tales créteres so lulla en Esta los Unites en el estudo de Arizona Su diametro es alres edir de 1200 m. y la profundidad alcanza 174 m. Todo un grupo de crétures moteo riticos se ha descubierto también en la isla de Saaremaa er Estonia. El más grande de ellos tente casi 110 m. do diámetro y está heno de agua.

Pero todos estos y muchos otros semajantes cráteres no pueden compararse por su tamaño con los formaciones anulares análogas más grandes, por ejemplo, on la Luna Y hasta hace poco se

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El estud o signifento de los cráteres meteoríticos permitorá penotes: más profundamente en la

historia do la Tierra y el sistema color-

# (Riot en Mario)

Entre todes les encenes constes que formas parte del sistema solar, le fuente de la mayor cantidad de seasaciones e hipotres que serprenden la fraginación era quivás, nuestro vecino por el lado concesto al Soli el planeta Marte Los eflebros camales las zonas obsentas, los llamas dos maras que combian de telor con el combio de la estación del año dos pequeños satélites. Fobras y Defraos con respecto a kes cuales se expresadan las suposiciones sobre solo estados se expresadan las suposiciones sobre solo estados se extificial.

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Pero lo verdaderamente sensacional lue otra cosa Rosulto que Saturno sala redeado no por

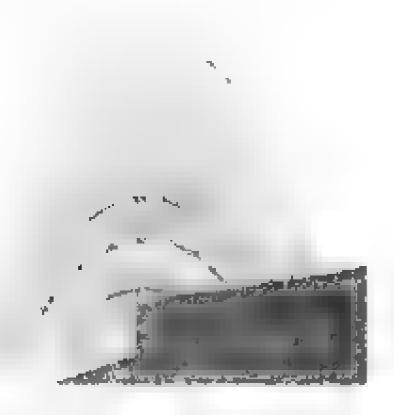


Fig 9 Anitios de Salurno (Foto tomada por la condacósmica "Voyager- "...)

seis o siete an Mos anchos, sino por unos contenares de anilios concéntricos estrechos begún las apreciaciones de los espec alistas, jou número constituye de 500 a 1000! En las futos tempoas por «Voyagor 2» se ve que estas en thes estrechos so descontrates a su ver on sant li con non endatema and a su vul comes. Se amenen se presidente or of one to du pou no todos for and or a treca a per on titla forma ropa ar. As a pur open pla fo a substrate como de crites varia de so, a e r kin

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### Volcenes del sistema solar

Para la astronomia modurna es carecterística una amplia aplicacion del aprincipio de compatinitório de querentes estudiar las loyes del desarrollo y la estructura de algun objeto testucio, entonças una de los metodos una ante eficientes de celicion de ese pro i ania consiste en haller en el Universo otros objetos si ultares tratando de aclarar su semejanza y diferencia compatinidades con el objeto que nos interesa Al revelar las causas de estas asantaremas considerado en la aclucion del problema plentesto.

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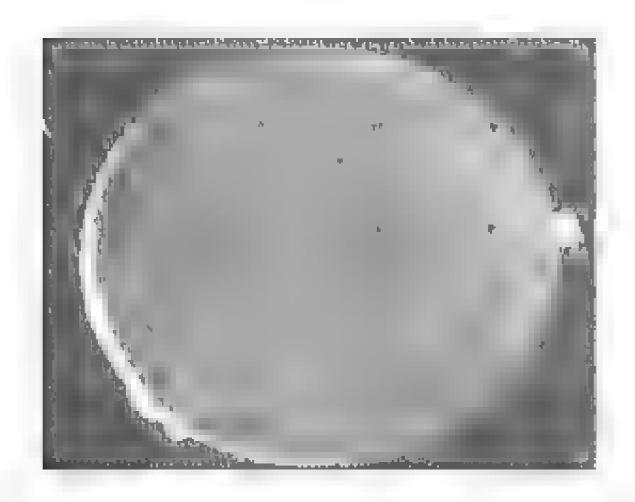
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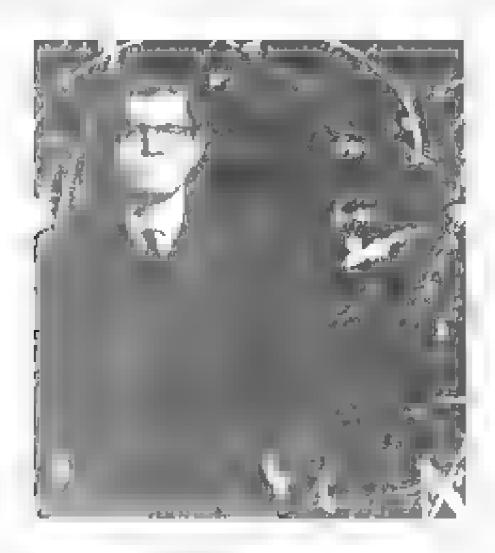


Fig. 11 Huellas de las porticulas elementales en la prausión fotográfica

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between its companies. The reserve to specifies afterface where course or save transmit also as a talker a court an er sa engagen appende neven en an inches a secure appearing the state of the stat can run to appear to the macoupals a way transported and forting partition of the same by and a district party was attracted by a constant The periodic one or warks senior to present a family distributed to the state of the sta an expension with the proof rights and reserved to the second of the second approximate a mislar for a tall make at a make a group a format. part of all agents parts when placement area evening to how my four on togeth which where the promining to the promining the first three organisms ments are her attended a number of securities and from a horsely of some pools were price has been bur bie ben delte tade in tweed ade-

tera ho se pata su ammete de jas postas dodes acts un atra e un que promoce as un esta de la termina de la termina de la termina de la termina de gran interés práctico.

Intoto la deserva e for a margada anno el bescarregionto de men sen que aperdaten su unteserva temetria agua importancia removernal nece a deserva e ce los poctones (el ma de a estructica del mando.

#### Sale tes invisibles para el rundo.

faferes tem placetan agreeous de eres te castin de la seculians de tour especie en a siem des a en el sutrema solor con en cente des pue de la la la gignate Réplic de trons. In factories, seguin e en est dur le, peux du 21 y a land du de aproximenta a part al manages du actabilités dons temps l'espèca mente. Martin t une solle des samples les tambés par l'appar y les aux, bient par y bientes sus fon lemps de alle dute.

La treatre a see as he was acceled natural, la

Lasmo

Lie to densite the particle section of the production of the control of the control of the production of the control of the production of

La poneral, pur qui settore e porche actiones en a que cas la realizata del del ha lerra de allaques a alastica d'alcoraren y un terrandició pelaris moneral la pesa a ha la que ser tenta la traval en material fad es que le qui prese a que la dire no tres a veri es anciar e secumente free. Amo cultura in pascales de guéros en estaqual en alors al retres les estanticas del contaga de un materiales.

A him rated too be goding?

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to realize at alger course so had a re-ofprotes on logicarge v administ parties and a personal plus able dad no process as a larger vlatter or out to remove career on two transpigrat before a bijerous or sea, he goes part manaper

a pur la memor intente large taraja

At a cell formation can be particulate passed as a cell formation of the particulate passed and other of a function for the present can experience of the process of the passed the process of the passed the passed of the passed

Anter the settle process to be because consiste and a set the expected of an elementar process to proceed the employed the attention of the elementary of th

In a prigraph of the glober curso flores deservation sately ten uses so he lander but has pratery de l'agreeque del moteure en l'optime données deservations de l'agreeque de l'agreeque

A halter a less fueron etrapard et le mondiesa de les hirosa de la opica groupe antigia est re la guarra de Troya. Al movor propo es la lara hagraga es,

al messer, surovanosa.

It is an alternation to be ped in describe a notalities analteges to in Traces done position as retained were un actel to some epister such announced punto correspondingual do logrange so halfs on ma ross del transmission operate at box y a in way bashouse lepto to be from a care to in his later to Admiss on persons a que la hoche sea has box has

By a part of the late of the form the factor of the form of the factor o

Incharing an in mass de construcción de porte en hactante que go figurate en la coca e comuca ente a rededer de 20 mil terretadas. E en decision dad contrata inciano en proposición de la company de

difficul descubrirles.

The obstants to tendral the temper of causal we provide not serially as an second notice at the market at the market at the market along the provide the second of the second notice and a last second notice and a last mayor of the companion of the market of the market

her earn tade on anny seductor creer on lun-

protos de Lagrange estociones cúsmicas addita es fusi no se tendrá que corregte se posición en el espacio durante largo tiempo. Pero entonces, posibles er te, surgirá la necesidad de despronderse de alguna manera de la materia acumulada e i esas regiones. Lodrá resultar potigrosa para las estructuras de la calería y estorbacios observociones cici tificas.

# Existe al movimiente per inercial

Un papel muy emportanta en la comprensión de los movimientos de los cuerpos celestos y en particular, de los planetes del sistema solor desempeño el descuarante ito de Cal leo de la ley de la inercia.

Er aquellos pempos, cuando esta ley era tedavía Jesconocida, e gran Kepler, tratando de hollor la causa que hace girar interrimpida mente los prosetas atredodor del Sol, buscaba la fuerza antetricas que empoja los panetas sindejarlos perar.

Abora se cabe bion que el movimiento circular de los planetas se compone de dos movimientos el musimiento rectilinco uniforme por incresa y la caída soure el Sol bajo la acción de la atracción solar.

Pero ha aqui une pregunta un peco mesperada conste en el mundo real el movir mento per inercia?

He recordado para toda m v de un ejemplo sentercioso (reo que cursaba en aquel entonces el ocurvo grado y estudiáciones en las clasas de física las tres leyes de Newton.

Nuestro profesor, bemibre ingenieso y mi y conocedor de la listica vino a la illigra clase con u la liu esta de progettión y una caja do dispositivos.

-Ainra voy a mostrar unas imágines - comun có él —lispresentan diferentes situaciones. Vosotros tenéis que verlas con atención y decircuál de las tros layes de Newton se manificiata en clina Vamos a ampozar.

En la pantalla aparec à la primera magen Un much acho carrierda trop esa con una piedra

y cas precipitademente pomendo las manos delante.

Así pres<sub>re</sub>de qué ley de Newton se trata?

—De la primeco→ respoet mos a coro unini me

Y teniamos macones para tal respuesta; es que hacía unos días nos apareció anto los ojos la tela exp feativa al jurgo do diapositivos abas tre leyes de Newtons, Ignoro por quien foo compuesta, pero en la anotación al mimero uno — tel much a cho que está coyendos se decia:

ellustración de la primera ley de Newton, la

ley de nercia Un machacho tropueza corriendo con una piedra pero la parte superior de si cuerpo sugue avanzando por inercia. Como resolvado, el muchacho cae ... O algo por el estro-

-Supongamos - dijo el profesor Y mullamo a la bizarra

Contencé vivamente

 El muchacho corriondo tecpiosa cor una puera

Asi entances, the printers fey?





F.g. 12 l'ustración aparenta da la primera lay de Newton

Asenti con la cabeza.

the energy so talks on estado de rejuso o recommento del recom a recti inten, hasta que a como no se disputes por en fuerras exteria en exteria en exteria en exteria en el comporar esto estado — ecito de una voz con ticabeor la formulación destomado.

Compare Abora emuos a traductr esto a la lengua insua occasionale, en sobra el cumpo no actuan fue ses exteriores, su acoloracion

ter Ig Al a corn No se ser?

with a repose? prograte algorit deser sa

lagar ... , Sa les un bo cade de este?

— It represes a un rose particular del movim este connide i selected de es no a titen, ade que habte y de qué un hable la prince est solution de l'action del caso cuando as forzas em moles à de o demas, por habiert Y un las forzas no un aprince en curo la princera ley no subse haba de 480.

tre also necess to to aquet cia tratabament amplianen a le caccertar fan form normale de hasten terminale de hasten terminale problemas. Abora la primera les de hemios aportes a anto nomicos como sa forma en una forma d'atività Compronduncia de gotte que la scaida del caurante de primera le cuadro no tiere nota que ver con la primera ley

(in monte, as machacha trapara con in parcostra and protes Pero esto no priesta desir que sa procé a cuan una forças y en el muyunan quel muntación aparación alementa. Desde ose monten o sa parcostó a alementa. Desde ose monten o sa parcostó deja de ser un forme y postitures. Perturben o la pilatia lay

ners fat under aller virge nivered

De todo esta se sace una conclusion importante. Se puede habbre del mercia ente per increia ulla cilando solre el cuerpo dado no actúan nicipadas fueram en absoluto. U por la menos a product against the land on the fireston two ignors in

rant for ancia to regla of the fraces against an a security of a categories to a security part of the security of a categories of a security part of the security of a sec

note the of contribe bearings by property the production of contribe bearings by decrease or her motorest forms a construct a despectable the parameter of fractions on a construct as a construct as a construct (in a construct by a parameter case one a construct (in a construct by a parameter of the break case to a construct part by facebook do a facebook part by facebook do a facebook of the construct of the bear the first tendence of the bear the facebook of the construct of the break case of the construct of the first tendence of the bear the bear the bear part by the construction.

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no parecontrate with the law target compare on a boundary to five and provide the five and the provide the five and provide the five and the five an

Less via auto reserva in portarto la primera les de Nauton practica escato non a se con no en a natur less with or of case automos el caso limit a del mas appents secto ed a

### Paradójas orbitales

Come yo saheson, el morto terto de les eser postonestes se turba en las uses de Seplan y la try no de grande con de Seston d'en leves se turba la tre proceso en que una prime excertar la tre proceso en que en el maris de la tre place de la completa del la completa de la compl

Lun astronase despreza de a bordo co se soté lira actifica) do la livera que se mueva sirede der del passas por una orbita e ipi ca. Il e cué nomen e es más vener justa realizar el mianque con de sotel te so es initre en el apopto e

on al parigeo?

Al parecer la compania cata computamenté clara per supuesta par un el apogro propie cua i te mas l'es se encrentre de la ligera, tanto mande la berni la presi actor terrestre, tinto en a be, a met la selle dud de liberar de y pre entangalente term menue el 4 el gasto mercano de combiest ble.

An abstracte, no debe oly dares de que regun la regula a ley da han er el satelle se mundo par su centre con venculad variable. A suis aux qu'el spages y més alsa en el prugeo

Inches man vontagen? The soleculus me me de liberación en el apogen petr en camilio penor ruscas de velocició (micial o li mi mas of recersa de la velocidad tricial en la perigen, pero también una soleculad tricial en la perigen, e ou que de la rubca la mayor.

Ningunos razona aboutos confetativos daras

respuesta a mantingolde poo om carriga ciliutus osacion.

the date calcular care of apages y a perspeclar afferencias extra la selection de most afentodel satisf to actificially la redocument on the exclusica of parts, dade del mps, a consentencentra w compared on a differencias antra a. It is absorbed to the selection of the products a tell parts to de arthuculto del patrit to artificial para la coal per differencia results memor.

Near som the ej apac consteto. Non que el land sa attento de un pare to de un o seconave se real se a lando de un pare the artificial de la live se que se pareve que una del tra con la altura de apageo la 196 km. y la de portugeo de 196 km.

There reaches in the telephone de libe accer para differentes al orde octán celephone index y recuça en a casa e telephone operation. Casa est ada tas telephone in telephone octán proceso de la atual de de ser suite to que a literas casaciat (you literas e y para la atual de la programa (CO) Service.

No remove traction trabago on relar tendages a venera di de mais mismito del sutélite en el magre y el apogen tenera que e (2 d) y (220 pm s, respectivamente.

Abore tale damentes in effective as the hypothes, turn of persons on 11 de la 2000 en 15 de la 15 de l

Ask pues of grants más venta, no pose ellamento es ex el apegeo erros presis pereces o primera vista a un el per rec-

In currouse que al autometre la elepte dad le contente que el per gen cercon ace mana y la parendeja de la unitare én se terma especial nunte estdense. Les emple para sen estata mente estdense les emples para sen estata menu els gells con al perigre a una distancea da 4 fin i hace e la cience y el apogra actuale entre a té de la Arbeta I mana a una distancea da 4 fin i hace e la cience y el apogra actuale entre a té de la Arbeta I mana a una distancea da 450 mil hac de cuentre plane.

in an runter vacce. It was fact had notice to coputation to the rided a consistency management to had attracted to be fact and a larger to decide to region and posture, que decide la region del agraçant.

A an extrañe, one or av-

I with human terminates may you was a paradopa do faque to train a section of the laster do for the laster do for the laster do for the section of the paradopa do faque en trata a actual a solo d' comparer la residence for la faction de la

In a transmite you of value and an elemental feath do be acceptable to be a transmit of the parameters of the parameters of the transmit of the parameters of the received of the parameters of

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Transcribent in the received in terrestate de la contracte de la contracte de la contracte de la contracte de contracte de représentation les contractes de contracte par représentation de commune tienque reconserves de part vancer le date seu la lade l'are el mort reconse de la contracte de la contrac

de core e a scher de la Tierre el parett. Vanus

tumo en valo. la l'estre gare por la ôch tapleadadar dat Sel can ura valoridad présuma a 25 where a 15se a tapta anal velocited terrant cum progres a as San territà tam dan el aparate chemico que despoga douda la besca ela un sala-I to apt to all do so finers I a orbity to breus good a set made come a ded astro discours we been p) a cour a sea une regrou no acceptar a valuadan in cial del aparato con respecto a bidcomo diperson, decan e el vielo a Muste, a caproducted Pero Asia os so amente la primera and the many the the therestopy. The world the part to execute menor sea pay volcastat trata mas suprimises a al apparate cosmo a concara la White cal glanote beans Carro macripagios roll and a crain to release but to posts to be able 27, then compense all soul all regen parties for the property selfelitation that come they will be as

And purpose instance productions to the first term of the functional and a compact with application on the size of the size

### "Sa ución de estudio" (ciencia ficción):

La astronova de transporto el marco cumplia el vanto encorrer hac a biegna i acamin a berda a doce persoras de la palacción y alle presistado. El capitan bleng e el navegonto fose un la abres encorrer como estre con el cabiero y ambien el representa de el formación el recor fose encort la estra del namento de estra del hiperespecto. A gu fació en el est upo con plu ada de marcos astronos como la reve i un desemble de marcos de formación con la recordida que resola de marcos con la recordida que resola de marcos por el contrato esta que proposito de esta tenta esta esta paracella de marcos por el la marco, la constante esta paracellado. Pero alla la coperción la energia barco,

ura setrell to de encere consulad a potente gra-

harries total models sols and 5 as 40 account do 14 cards o un element and 5 as 40 account do 14 cards o un element and enterpero on functional para temper les cadenas de la grava-tación. Altera la tave se ravela a redictor de la cardo por una crimia la vada a tara distanció med a da cerca do 20 de 1 kilometros dos centro da la estesa de vincia la potencia e de test motores de la estada para escapación dels ciptaverso. Anemás te a toular el creaque calculada y se agularan las reservas de coorga a necesaria para camanar ol campo de proteccia a que contrareca taba e e lor in ineracio co la estrella.

— taránto? — prograntó com lorves Mirag senamas ar los opos del tallero dos forme pequeña prosta coje ta ar am ana of pas correcta alceded acda la astrolla

I may gaine in the keels markly or mere abbearant turnbrow's a comprender a next as polarities a su pfo, apecta regularients these tooles on the partitro del calculador

-sex bornery constration (Tables of ordered to SOS?

a enare estable demande rerea. Manjor la adrocase estable projector de projector de la respecto con callenga social cast finicamente la respiración con callenga de la petre la Testavia era protegula ... Pero dentra de sors l'area y modia la cure gua en consumirá, y autonomo

--- the se person deb has to profes on'---

preguntó Mong.

-11 campo de tedas maneras es municipalreparts Gascondi. Quó cerca sobre la select
Mangraia responder se deslizo en su ha aca
y ristro los opra. Abore tenin que resolver i a
proprenio superior a las positificiades de has a
la computadora más perfecta ...

Per supresse que en la satuación formaria estaba ni ligado a mandar la 50% los es gions les el statua cóm reces. Pero Meng anna com cortora que en sa sertor no initio na una sola nava capas de prestar avada a «O nicr nos la estaba mava capas provin a « encontraba en Meges, pero la astromario estaba a tal discancia de mão, que un radiogra na electrica la venceria en muchos meste Pera que la sedal de vinceria en muchos meste la sedal de vinceria in capacida de proceso del hipercapa cao dal radiotenciamiente requirir un giato de poergia in mastrodo grancia. Pero la cienção de poergia de la proceso para en la cienção de poergia de la proceso para contra la compa bla el esta le faba a «Omicrora regando» y ministra do más

Pero de todos a educidad an decidir a a una tod utras sono los litores parad si la lucia, a cue ince es accamba, les la flota galactica l'alfa sobs l'es a qualm consecut para l'esargar l'is precisas de sa quella de l'incercio para l'esargar l'is precisas de sa quelque a lles tras a conselpa, sin care ellas internas e i la transpa gravitat seta Para Mong sa na que traine e las se ancientes para abirra en l'esaciones lejanos y de ni ignisa mariera le idran trempo para acercates e el a compo-

Independ gamer on pero do tempo dejo

Cateends Uses trepts inclusion

Al cupità i mino lateriogator amerite al l'ivegante

si se quita la generated artificial explica-

Gascondi

No. it just decid diaments Meng. - I note how

parajetos bay an jures y miños.

the applying prictions of as, que name productions product to the product to the product of the

Introduce to large survivies countries of caps in Mong case such the case was an actual forest extragal Peru translation when you to case on acts. Each one to too be described a proper succes of it goes and feel pole on the other or contactor acquire to blanch and soft on Optima Y costs onto the real pole property.

Pero abore no base salt la la testamen abamenteristerante in este la fail cue so pod a borer un estadituire cun quiera. Y enda ya dispendia del cape un blera. Podia epia se cualma nu sea moi ine pero si fi al de terme manerae sea

el ún co.

From quarte cont. Que delda a variatione a en mention y engle or tens recognism un austa que pl el ente le momente la la estent a consert una a attenzemente du ma accurada bese vata

The Ment of the state of the state of the state of the Ment of the state of the sta

The city que la ser de terre margrae. Na producte de copies modis l'ante cuando a setres i pare e urens s'alle

I for colours or today las pers h lighting? -

progression de servicion of managements.

trammed with the amounts in cabers. Purpresent was landed incomments emants or table of habits communicate subto in cutartends transmission on the current in loss nime. I ascording to energy & dishabits constituted in loss nime.

" a minute conscess todo...

Pero de testes commente hav que revent to-

- diens at ee un case electration actaire. Contends: -- Qué variantes pueses exattr' ...

his contribut Mong to competence no pour at absolute one on nevers to "lin stres on the plant improving main all facts he was not all a he do has THE OF COMMITTER Y THE BROOM OF MINISTER OF PARTY. terms to a matter I so made so the newspay on mide management transfer a less extrement too de recent en teamorana per a merces decembe les sell ment p t counts often as one male nove habit casts on ten transport practical criss Subseque a dil a consultate LHYO SUMPLE.

(fore ta) was presunanced and on a radica on a new procedule and I have even heaten come in grown even so as a labour toole companies the most providence. Its and a come a sa meta petermente. Y as su anal sa was very man completion position stone cell an one transmite. maderno la a topotita remand al le cu que se l'anpostitudo, quisas se baste a la sector e no con-

war makes a fine for elementarity and element

ha tender and here you have no fore of the conpresent a C argundal for the executants navegorite y toology and opposes. Many no executable he was ay a reso transfer transport on bullions abortions por algo de la almarmorentesa l'ema procuestama e de a era no pair to ibill thumb consect becomes y more the exists we, were a wantum cutter a newere true extra to make appropriation if you do not be property water we give respect to good and partners. la «Ligetrucciónia

all se desgracia. , permitera para el capitar - ca proceds an in a programmed a part of representative send a re to mene o Y nieras person com an come exthat a manufic metalog and a femographic comme laste de la lagra agra cul assa a prestant a mario processes when we a to their mirror court enters a dis-In as remares. Compete, just an exerter hastonia here her fundamental y pourte more true total migrate or come personne o amount t pore blicks —. Proposed secretary — program to Mongal adole-

to acade?

l'a responsable le S.A. repeter un passentire e maregan e. Art camps le eage la cinstenccións.

Now the being the tendresses the specific consists a substant of the property of the specific consists and the second of the sec

ton cond apreto des latina con escr ofenésdo.

Ovisiero ver

Memor se passer de par y se acercó a la ferra a col-

Ammer a petition product A ver at .

And the both the second of the

to obtain the needles and take term makes to obtain by properties in region of country by any terminate of the attention of the property configurate. In estimate the attention of the attention

here de terias prometas volana here producto in attais erome como para pero y history por mara naturale ad ret il se set attaine de la deserva per attaine and secretor.

Und ration on consume , may be use?

Lade thestede de a case, estre polables per paren un piece et rafe y fabres per tune pales con è rite uniter experient ble cep de ancemien a en de ann a la recube la proper en e

Carcondi sóle se escogió de buellese

No alcume to potencia? - progent's Ver a spart endo per fur la cota do tablero.

tisted jamme la ve grafio Concoud no n'ny

entifermento.

— j' production l'empre de agrage desden de agrae horzes?

Housen or was horre a me La restaulto

e equies digresslo. Mong-

- to large cadeter our clauseste til k ott

eo - M-m. asi...

to any ages manded in cretechnical absolute pan de protect, y en este mo norte han resent e a blong an quiere a la contrata e quiere a la contrata e quiere a la contrata e protecta trata un ril con en la saturación caracia per sambare él que o cara mande e so m es la constituir absolute de ver a tratada la la parel no transparente de la moto que o que o que o en la parel no transparente de la moto que o que o que o en la parella del comerce y accesible solute de la ...

No on alten so the elegant Monig and and are

soto do la ciencia.

— place to a fall year on considering present to all patterns a present on segarity. It is much to

1.44P

Loro, do tadas maneras — intento empezar.

Meng le pune admicionamente la piano obra el hombro.

No clatente Voten pur in visto, no presto tingues atendem a res projecto incidente apprendente turapo, se acerco of condre y empera a apprelir una tras otto vor as to as miemito cale sea al dispositiva de salida.

Meng trato et region eus cômputus, per e may penedo pardio el hi a bols tuvo tiompo de comprobiler que los cal vilos de bayan no te con enface.

alizee to come man a transfer.

of a catendar process conducts about the present Mong. And rectors put anaetic of a sea to the vitalistic to be a process, but a sea appropriate to be grade problem a contact, y you have been accompanied on the contact, y you have been accompanied on the contact of the contac

El tearico so aparta de pronte del tablero y

pregume intranda al mavegante.

A stall come igno el gra domin en investi de! Cana mela, alesa do momo pregad, mare o migue-

temente a Varin ¿no liey main parada?

— la mirante demestal — pressar è él por fin mirante hacia un tado indeterminade — l'ay dos fuersas a sabor la generación de la mira a y rumites empays. Aqui inde satá clara La avidente que el empaye no a cansará para desarrel at la regunda cósmico.

then men balor on Verin.— La per biledat de la resolución del problema depende de camo m a forma sea. Esta problema del como esta plantando.— India è con la cabeza el tablace...

es modulos de verdada.

- Lastitudemente no lui requien presteó este pent ema- the a replicar trascondo

S.a embargo, verta ya no le e a De mieve

to much a meditor desproud. fudues mementa-

meaniente de las cosas que la rodcaben .

En este momente Mang per primera ver sintié la especiation tomprenden major que madia que sélo una matavi, la podra salvarlem abora. Y como tales no existian, con necessira una solucion su perongenal, incaperada, extraordicaria. Selo co Ver a pod a especiena algo se rejunto si un ganaral algunes per que algo.

El capitan muro con respote al teórico. ¿Quión pedría pensaré Pequeão, cupito, con una naria aquela nada de tirua ¿Cómo coba ara lo que so

puede i los demas?

«Conocais la anceduta sobre el perro? progunto de repente Veria

Y como ambos astronautas seguian callados

perro le aturno a la cula una sorten natalica bi el perro echa a currer, lo santen ha du goment sobre el paramento ¿Con qué veloculad debe correr el perro para no our el somio? Il por satrano que parezea, aquel otro fivira no pudo hallar respuesta a la pregunte.

Cated como cros ¿cen qué volocidad dobo corror el perro? pregunió de pronto Verin y, soprior de caignatecomente, lanzó una mirada

file a Gascondi.

No se mormato quedamento el navegante y miré con suplica a Meng. Se veia que apenas se contente.

Pero, sur out ando una mirada tensa del capitàr. Co condi tada sa encogió y recupando na disolas solto sue gana:

-Por la viste, debu currer cua a la volocidad.

SUPPLISHING TO A

Ani, nei so nehò a roir Vorio - Assumasmo se puso acuel fisico - foro la rospicista correcta es phisolationente servitto. la vel situad del perco

dance ser male. In chapertal I present en que et problèmen ha su a formu ado ase genel de la sur la velocidad? La value idad . Aqui está el quid de la cues ión. Hasta los fracos a veces se etyntacidad que a velocidad ante trebaco resuna velocidad.

El recto y series la Constraint a in talta a bersulem anos open muy attert es. Meng tarina la se sentiu un poco incomodo, ana par compesa fra muy bren que esa arecdeta lo necesto el terrico no para divertire, amo conte qua tregas perdetes. Abora fur cionada la subconescicia dejando deseni see a la conciencia

elfor lo de case — peresó Meng — no en vono (el vino a la casea provisione de ese a téclica qual vea ya ha palpada a gola pesar de tado?»

Y, como potermante su sepose on optimista, Voria de nuevo se motro de inacional tablero, eprotonico de manera graciasa, como un mino fastables comerzo a jugar verturamiento en ol tertado.

Meng y Casconet agriculation on successo. Pur lin, Verm se despread e de las teclus y suspara, ora con divise ora con decepcion pere en aux obre grises en tormedes de aneva bril arch chispandespreacopades.

cluege al ajer res? -se enteré con tano pro-

化用工作作

-Si -responded Meng.

— Saba la que se una solución de ested o? La penicion seta completamente pard da, pero hay una jugada que il parecer com una areferadamente a la destuta. Pero precisamente ma jugada extraña trao la victoria...

Annea Mong antica post amente que Verca les a-

una salida

-2Y qué? -pregui tó él incapaz le referier a impacier que

Vocin miro stoutamento al capitali.

Determos tacer man pigada de estudio - pro n mero lentamen e, como es poesta algo una ver mas

En el coatto remaba el vilencio. El capisan estaba imposil aprotando el se pallo do su bu-

taca

La recesario consetar el rempuje - dija Vii in Ilaboro repolamento en tra koja mas el tras y altresa el papol to a Neag

store tallare contestmente cosmudi-

que haga mas a argueto la oco ta-

-- Esq es ---dijo Verio

Pero el empaje communica toda la emergio.

) por lo tapto, la protescion térmica.

Lapera corta Mong alla agual pensó di -

contro de seis lineas o contro de tres la

Pero en sa interior el capitan Meng tema con Libura en Verra. Alargó em vocalar la mana acmadro principal y combio ma tras etra en unas decisiones las cuatro pa ancas rojas.

Gasconda palidecao.

So evo el sumb de característico de los motores cuasquearem ses reles de proteccion contrala sobrecarga.

-¿Lal vez aliora Ustod explique? pudro Meng Si no igo aquissoso comento fertamento. Verta — ¿ a « ha croco consta de dos partes.

arsladas?

It obtains the confirme bleng. For with the obtained builts of complete de mande y los we torge, en it otto, tos camorstes y cuartos auxiliados.

, y or possible desecoples owns paries y se-

parent as a man il stanct a considerat le?

51, tal pasition ac esta prevista para el casa de avecta o basa la repurseion del grapo propulsar Ambas partes se separan y se acoptio con ayuna de un apulsadore espectal

129

-- ¿Cuál es la distancia músimo entre elles?
-- Ciento cintuenta kilómetres.

Quiero deshacerse de la sección de paraje ros? Lab o por far Gasecada ... Pero de todas

manoras, el entir ja no accanza-

-No — cplico onergi amento herra — Seria demando fucili la enane no nos asitora tan facilmente — La idea es completeriente diterrente

-Estamos perd endo el trempo - so antercaló

Mong-. Tal Yez...

—Uhl l'enemos trecipo de sotra dije con en parin lidad Verro— Pose (vivo ros conocola, por a ipuesto, la filsa de la estrodave pulsatoria?

value de la Verine de la comparación de la comparación de la value de la comparación del comparación de la comparación de la comparación del comparación del comparación de la comparación del comparación del comparación del comparación del comparación del comparación del comparación

- Empiero a recordar algo confusemente pronuncio lontan esto Mong. Lo encontre en manuncio luntan esto Mong. Lo encontre en manuncio virgos. En nu no equivoro la cosa est que la nuve comiter no es un punto. Y en lucia està distribuica en circle volumen.

Asi os so an mo Vor a Si thevita astronavo de separa en dos par es la residante de las fuerzas de gravitación, apicadas a éstas, resultara menor que la luerzo que abora actuasobre «Omicroco».

Hablaha de una manera clara y bien compiensillo, como al diesa una conferencia a los es usciantes.

¿Listo quiore decir continuo Mong que sobre la astronava alarguia actoa la fuerza de

repulsión?

—Si aubas priter se unon en el apogro y se soparan en el perigeo, «On icions abandonara la febita kepleriana y emperors e moverse per una espiral desenro lada.

Mira... -alargo Mong

Me his accordada tembres - cros de repente trascondo de tono encotado - progratir a escaden e general --se acho a petr noramente-- lero, a usa respendo mal, hasta para vencer con tal metodo la gravitación terrestro la nava necestra virros años y Y la gravitación de lo compa".

The estated detaile promoters on in proceeds blood being era associations peached appropriately and exchange to relicate exchange ensurement of the entire action with a second exchange of the entire action on the compact of the entire exchange of of the en

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-Abt sets of details per tid Vario - For all cared the a gravit acids travals para insentrate Cuento mas marias es una estrella e en placeta tento mas rapidamento sora alcantada la vela cuad de liburación (Ab está la para eja)

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### La gravitación contra . La gravitación

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The fermion on all particles a special to the first and the sequence of the state of the state and the sequence of the state of the sequence of the public of the sequence of

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### "Concedencia extrata"

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inás proxima al astro daneno

Una come dencia aun más complicada so desculro en el movimiento de Veris. Como ya sabemos, este planeta hace una vuelto alrededor

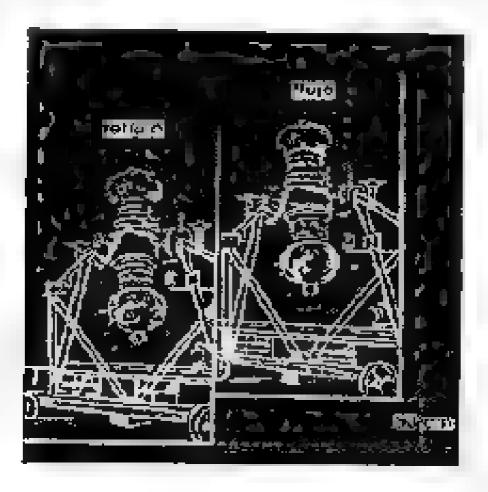


Fig. 13. El valor de la marea lunar en la materia sólida de la Tierra en la región de Moscó

de Soi lurante 225 duas terrestros. Dentro de cada 584 duas Venus se haila en la frica que une el Sol y la Tierra

Tombién en este je opento Venos esta yuelta

a la l'aerra con un mismo hem aferio.

્રિC નહી es la causa de todas estas acondiden-

Taesio

Todos conocemos el fenomeno de los mareas li nares. Lo gravitación lunor formo en la capa acuatera de la Tierra dos ejerobase. Como a testic play to gree to me produce to branked at part to an acceptance of an acceptance of the product o

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# ¿No nos emeraza una calastrala?

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I words to be a second to grown to be for styme to every a analyse to a who sactors so had a to post 1. It shows you a cost a creater the presenergy are receptable and as to be more as himber room d'engelles pase la francies de gress a which the production and the product is the second of the second hoppus posite for a passive live one pay interthe property of the state of the property of the state of quarter the plantage by and pared county per extinct service between pair and restall a space type theme. Planete array on some or of potential and war also were sense to conspice set to sendoner, on our prin except the same was a property of all a good a present of the land was a port to date of the country of the Care for principle of the Principle of the Care o many the factories had not really be made and the many comes in contact the interpretation of the state of the sales. displayed the plant of the engine of the constitution in the first refer again. and bendara that so fit is in No state to be graphically and complete and grain flat expense on the w was placed a foreign on earlies of wat not come process was present that they can be been been been been as the format of the contract of the a site the annual of the same and a section of the same of you are all value to be discussed the last fragues que as were source end a contract fractions from all cases The street of the space are used to the concepts on an expensive to the character and they also were really than material on complete on force generalization

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# El Sol y el neutrino

An horrow distinction is nested astern determined by the intermediate parentes of the later than the second as the later than the second as the following second as the free control of the second as the second of the second

Por la demine, la capros du sector no ce per y anno en mite en a casa ded a la territa termant i chear explica bastances bien les principes de la engloci la estellar y se sollo cu balona ca reordancia e la las conseteraciscos francas a sueva fau del And a line control at the part of the second particle and the particle and

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In dea de exeterne de clores vera el regiotro de los mentrans anitans las propueste por el ecucioner, y rea anota por el li con sucteorante cara li lla su y por ecluir radices ha ralidad de eta escrito de antiriran a rató una enem eclater na ligad a completamente presenta a a terresta pera lugad a completamente presenta a a terresta pera lugad a completamente presenta factora contaliegas en ma a a na de ma al andonado en el estad a el lla ma der est, como a e la endad da a encastado.

Las observate were an realizate to the terms the period of the puriod at an equipment of limited in resultado theory, at a lit numbers to active regarders of the terms of the contract of president and part to tenche.

Its tapeters on the employment of the period to be because the first and the expension of t

tica que viene del Sol, han nar i o de nocho cerca de la millón de años atras es que necesitabar caor rec pasos a la si perficie solor. Los les trabas, un cambio, nos olrecon a información sobre el estado del Sol prácticamento en el momento do la observación. Por eso no hay mada do extraño en quo los cuadros enectromagnéticos y ada han terron puedon no concidir. Ino significaria la fa ta de us menteinos solares en Insuperimentas de Davis que el reactor termos eclenr solar precisamento no funciona o i nuestra epoca?

La evidente e na cosa la solución del problema surgido necesita las observaciones signientes de neutrino del Sol. Con este propósito actualmente se creal los aparalos de registro necesarios.

Por otro lado, no se excluye ta posibil dad de que el restitado negrtivo de las observaciones de Davis se explica por las propiedades del propio reutrino. Volveremos e tratar este problema en el capitale signiente

#### CAPITURO III

# En las profund dedes del Un verso

#### 61 Javerso

I had do has principales difficultation en que a em per a rolla al hombre tratament de aclarar an lagar en el tono secoles la plater a todos fos femaservador. Li kombre observaba todos fos femameros centros fel comples a vistos desde la litoria, o como diciam ha fisicos, en el sistema de cierel e a torrestre, bate hecho lo prota no complier la a birar on di su caracte, virándoro.

Per una se la se mada de extrado en que las libralites necesitaron lorgar siglos para par ejemplo.

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Maches problems to the estructure del Universe policient to call normalization are observed to the position are observed to the position are observed to be neglected to the position of the p

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## Pri la mataga as a Papathira

Lina que can trotias sobrem uniteau mas acesto di fan que mantre eron en el tigle en euros prede e ma disparse su fin la las teneta del al live su expany son el hablando más mese acionis, de la Metagalaxia expansivo

La tres principal de escritore e conserva e colhecha ce que de Michagelman e egra 35 — 20 mil no famos de súcios albas de hibrar a expreso a somora grano sesa ce mos poe escritor a na-

terin amperduaso

the parties and the room of the west at the little to the control of the control

f carlos del mundo. Durante largo tiempo en la cosmologia se estudiaban los llamanos modelos isótropos nomogéneos. ¿Qué significa esto?

Imaginámentos que l'emba divid de el Universo en numerosas zonas se amentalese, y que cada una de edes contiene n grau número de galaxias. Entances la homogenesdad y la isotropia signi

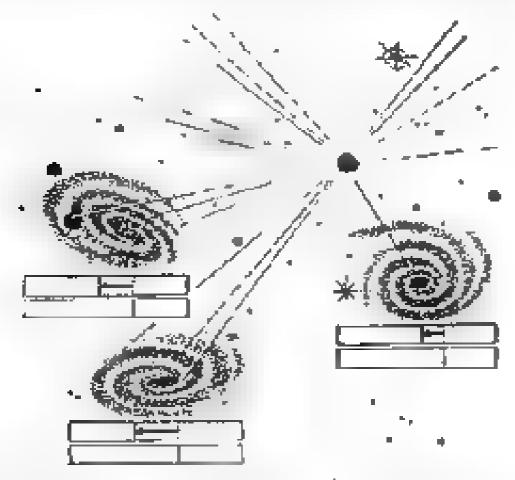


Fig. 14 Esquema de la expansión de la Melagolaxia El despriazemiento hacia el pio de los breca espectrales oumente con la distancia

fican que las prepiodades y el comportamiento del Universo en cada época son iguales en todas las zonas lo suficientemente grandes y por todas las nicocciones

E primier modelo del la verso isotropo homoganto ine propuesto por A. Pinstan Describia el Ramado Universo estacionacio es decir, tal es, on product of the same and the same and

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Fig. 15, Analogia que explica la feite del certre de espersion en la Métagoldina

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ce la recinentisión a no que dio la clave para la comprension de la noturaleza fisica de a últiples fenómenos que transcurren en el tanverso. Por lo demas esto no tiene e ada de extraño es que en cada objeto cósmico atsiado se reflejan las loyes más generales do los procesos naturales

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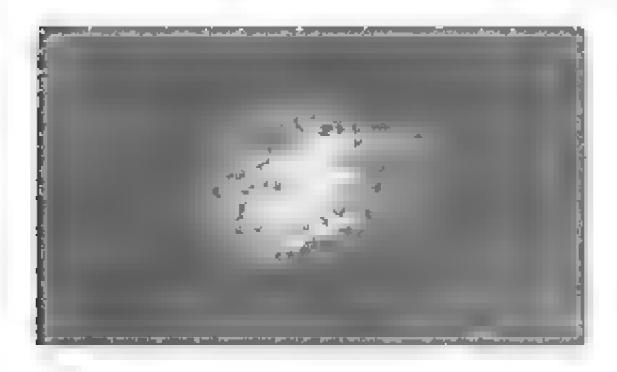


Fig. 16 Fotografia de la nebulosa Cangrajo

comicos, provocada per el movim ento de los espetos electrones ni ly rapidos en los carapos magnéticos. Tal radiación recibió el nombro de sincrotrónica, por analogía con ciortos procesos que suceden en los aceleradores de particulas cargadas.

Posteriormento se ac aró que la rad cemis ón sincrotrònica es una particularidad característica de una serie de fenómenos cósmicos. En particular, precisamente cal naturaleza tiene la radioe-

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## El Universo y el neutrino

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## El hombre y el Universo

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#### CAPITULO IV

# ¿Qué sucederia si ..?

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## Sobrecarga e imponderat-lidad

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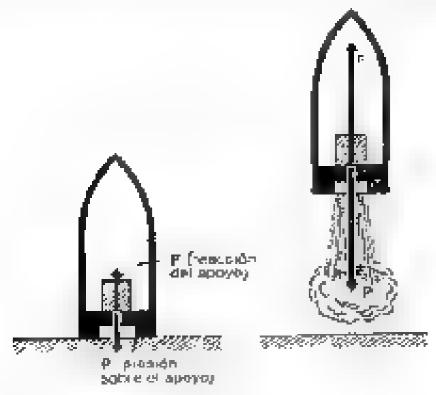


Fig. 18. Esencia fisica de la sobracargo

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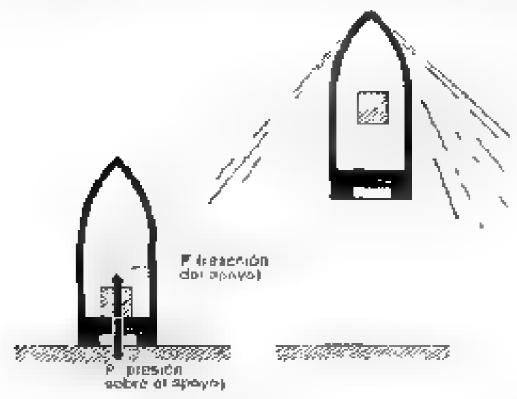


Fig. 19 Especia física de la imponderabilidad

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Poro éstas poista pomisión a miser a noncentra sel vel vildades de movernicado de a zemas objetas matetrates.

Pero en este caso parece que surge una situación completamen o paredajos. Lem las que en el numer a se no de referenció los velos lados du saccación de las districcios en ellos polícicos son som per menores que la fin limenta de entras que tales verocutades en el espando a stema pueden per masuere que la fundamental

Peco es una contradicción operanto les contante a betancia entre dos objetos es acembiena como la velocidad de au variacem son magnitudes que o peco en les sistema en referencia

# Si fueran cualro?

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In las pagamente las obtas i internas de comcia forció sa poede e monte e can bistante frecianera e son hotonto essi ma pontica de las encemos distancias compesas con estas de la Hamada eternaquetación como esta tenis com a traves del «haperespacio», o «subespacio»,

n esuperespacio»

Qué sobrecontienden les carritores de cienciaficción? Es que es h en sabido que la máxima ve ocidad de movimiento de todos los cuerpos reales es la veloci, a i de la luz en el vacio y que prácticamento es nalconzab e ¿De qué esaltos:

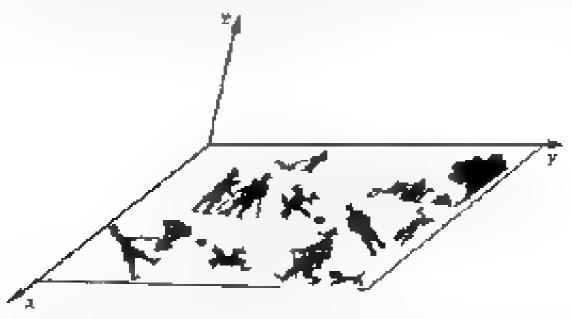


Fig. 20. Serus bidimensionales imaginorios

a travos de millones y centenares de millones de años-luz se puede hablar? Por supuesta que esta deo as fontástico. Sun embargo, su basa la constituyen unos razonamiontos físico-matemá-licos hastante interesantes.

Para comentar, imag némonos un ser pun nal que vivo en el espacio unidimensional, es decir sobre i na recta. En este mundo ecstrechas hay solo una dimensión la longitud y solo dos

pas bles directiones adelente y stris

Los seres monginarios bidimensionales los ephinifornes, tienen matho más posibil dedes. Yn punt en trasindarse en los dimensiones, en su mando ademas del largo hay tambiér el ancho Pero gualmente no son capacos de saur a la tracca d'inousión como los seres puntua es no

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Desde el punto de vista de la lógica matemática, el racommiente sobre el espacio de cuatro di nei a ories es absol tamente ir falible, rero per si ii smo no demuestra unda, ya que la falta de contradice ones lógica no us todas a una comprohación de la existencia en el sentido físico. Solo la experiencia es capaz de das tal comprobacion. Pero a experiencia tora non a que en

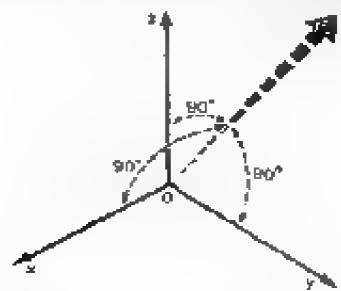


fig. 21 Cuerte dimensión

ne estro espacio se puede trazer a traves de un punto solo tres rectes mutua aunte perpent callares.

Dirijamonos una vez mas a la tyuda do los eplanteros» Para osos seres la tercera dimensión (a a cual do pueden salir) os lo mismo que para noportos la cuarto, bia emburgo, hay una diferencia considerable entre los seres planes imaginatios y mosetros l'abitantes dos espacie tridimensional. Mientras que el plane es una parto la limensa nal del mundo tridimensamal pare estan a nuestro alcance testimon an con ovidencia que el mundo que habitamos es geométricamen te el mundo de cuarco dimensiones. Si cal mundo que

Cuatro il mens ones real monto ex sciera en enestro mundo tri il mens onal podrian succener e estas fenomenos envirañosa.

Velvinos de imoco al minos paro de dos dimensiones. Au que sus anh lantes no pueden solir de los limites del plano, sin embargo, gracias a la exist nem del mindo tridi nera onel exterior,

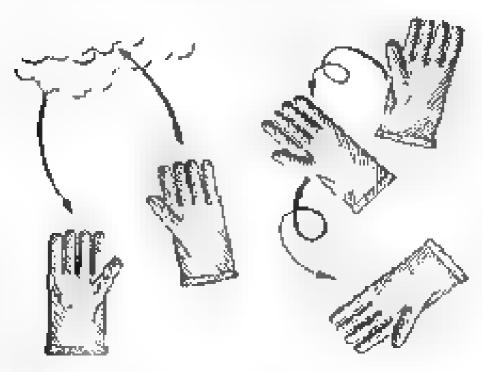


Fig. 22. Experimento con al guarde

algunos fenómenos paeder transcarrir aquí, en va principio, con la zalina a la tercera dimensión. En una ser e de casos esta circumstancia hace posibles al a procesos que no podrían succuer

on us u ado por si ic.mensional.

maginémones, por ejemplo, una esfera comente del reloj dibiliada en el piano. Por variados que sean los métodos de girar o trasladar la esfera, permaneciendo ésta en el plano, jamás lograremos cambiar la dirección de la disposición de as cifras de tal manera que sigan una a otra contra el sentido de las manecillos del reloj-Se puede bacerlo sólo esacandos la esfera del process of the same of the sam

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Fig. 23 Santido geométrico del mátedo fantastico de la transportación cero

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tales son les vincipes se het aux de millo de clatro amerisantes l'ero adea às trei e mesiventaje su l'assulta que con el mimente del militare de despue de dispunitye la establidad del movimiente. Las unincresas il restigación es muestran que el el espació hidamens onar nan guna perturbor o i en ausoluto puede alteriar el equa perturbor o i en ausoluto puede alteriar el equa torio y elejar al infinita el cuerpo ant se intere en una trayectoria cerrada alrededor do etro enerpo. La el espació do tres dimensiones, las restricciones ya sun muebo mas debi es, pero tombién aquí de tudas meneras la tira el cria lo un cuerpo en movimiento no se va al infinito, a condición de que la fuerza perturbadaça no sea lo excesivamente grande

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adelante la cabera, mirò con cenn ater amente a Barkálov.

- Par esa pro clo Sergiol Nikeloovich, istell

tione qua.. cuidares

- No comprence nadal - exclamé Barkálev confundido del todo.

-babe, como se decia antaŭ il a gi sen re e il

da. Dies no la alvida

- -Perlo m. Postislav Valerá sovi iz -- co podo centraseso Parkálov -- rated baco e guran instanaciones "Saus acerca de mi alga que vomismo ro sé?
- --Más o maios replicir indetermine amente. Matvéev

- Disame of the apple passed - tip co Material - consider the street are considered at a considered at

reloj.

-Is the a the second of the se

- ¿La idea del retorno eterno? ¿Schopechaner.

y Nietzsche?

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-Si mal no recoorde -continué i accé ev ... Chandraucker moetré més terre que les trayeste res corradas en el modelo de Gedel deten ser purbonadas si os perte dal principio de la reso-

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- ¿ labia cate ( en acc. ? to ser stratio ) ar hálas — Paro una raso en el mode o também assor er sen sen se contradacteria y ésseptitamente etra
- ¿Y composition materiales en la restrict de ¿Esta es la guar quara der si hacust.

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- Improve loggested seek in Baradlov Pero rese ge tame on considered to get any matemática page ly mode can some him on entacted man. Y term of que prevenirte que sobre mi circu an anécdotas. le misma que sol re el leves Parli se afirma una cuardo vo aperesco en un laboraterio, trabacios fos instancement of follow per sum amore, that a se east dade. Rost s'av. Valerifa mirie! I
- No kiene impirtant a propinte è Mety evi con una vot ales artesta... Ya er han parte on marches. Y contanto, ou darlo a Rarl filtre Lorence care refer toller at an an tone completamente diferente:

- Sergari Nakolárvich, usted ze propara para

on visio. I a mism merite rlo

- Pere par qui? - pregunto mannine monte Backflow was early somey Ha sen un Matveey midd saher ashre at Yink?

- Program52 - emberó a programbar el acade-

C stad bases excesses to balabras

- Per disease, Bustislay Valeria ovich aim en ha crutto an los adivinantes.

- / Pero tate! a nerse so propers a selle?

- No see a outer more at Approximation and anienter dontre de una hera-

- "Fr that? The Birece on sur?

- Bortwing Labortance ch. of este of ennbarla, altera .

- Por fever, restricted a ref pregunita -exte-

gió el académico.

- St. on teen S' hag's el sur -respondation Harkolov amenas contempos lo la irritación.

- President out question - different and enter

Matydev meled no sed a ringuish ports

- ¿Qué tramma son éstes, Postistiv Valeriémovich? -se encoloring Parks'ov - I stell me case on le continu com a fineral me llove n'espablicate, se pone a hablar de les mede es efelicies del Universe, lurge demuestra s'guare sparatos the way made or para may a few yest cause wange que you may make his range plans female. However, where que par la raction to be extra to

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- to o, it observe halosofu viete, we also been a cut, appends as for higher no cater.

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- I foolisminuscula note a sala a sun time it a

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- 2 Tambien esto?

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— ¿I male as estrutura la vidence altra un di i personante di male accesso que von questa.

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walle ver this statement of apparent era-

- No -c . Dorkéley con firmeze-, sengo-

OTTHE ARID

I themes more in pentalliam. Apreté un la traen et indices.

La richerta de prate de la parita la se lla se du Los della agua diressa a se se eleva a sen di me Despute de dispuesto y auto fembral e se abo à

una ventana a otra mundo...

I acknown recommend or add on a del anothers . In with the enforcers and units are selected in the red ten entre i di que cotacen en termo de la turse, no pleasurement , so se escapen berrese. rente and cares condition Lagrana angenempired a collective tighnousement to be post listoward function along Curamity is may be a so that prio de prievo en tota pasaros. Isa quielencia-Lingua son source portion assembly do on with farrent Correction from the etch data from I here a a module and of common per ma partico aconta icro-pero de coporte la sor ente propetanza le ma un delles atraveso la parte la 1 nes gigartes as girlasarrange do todo en au carrano, como en hacia al est Lorante convige masses regulation Lumintecloste trerspe la or port de la nicense de la galetarte es llurs de interferencian y une ven combque estan, aparacab ca antigen terre se de una paracreta estas vaga ante microsofes aplical a mora ca anademica estas vaga ante microsofes aplical a mora ca anademica el terraphia l'estrucia per aqui p par a sa a laverces. La rengen un au, lab de de, a a a par tue correcte de la gambe i, se pa ca a los la torres

Materian applies the bottom, his management purchase in more through done cost purports on the done in the postable south more to one of control of distribution with a resident more to one to beauty the abstraction are tooled to beauty, part and made obtained to a pleasure. Lower part in the part of costs.

test a ser nemercade emocra de tous el cratter parametes y amont un su prepara

mente con Long peademice

- to dear, (ve le escritor) pregunte i waski ov sonmovido.

to many procedure to the constant of the const

to be party as a special post of the site of the second se

If you concluded a process of terroscopings for purlesses mesons or process he estade a ser pour derestralates, cotago o de college o del per maio meso corrector.

The second commence who are the tracker of the present that

Vivido verias veces en la 1 erra. Y es que l'asta elemente de made se-

the figure of the first of the second of the first of the

Michigan and a property the boundary can be greated to distribute the angle of the sector of the sec

— A topic to good a decade the integral to the all of distance to the good and the second artists of provide the second and the second are considered to the all of the second are considered to the second

Page comments the same state over replace and attended to the same of the page of the same of the page of the same of the same

- large stores source to be a caree de un arbicula capat de late di fotore e a oblatada, la personic de como se a parette en a abana, cuata e barrier le commer todo le su mano?
- Intermed the second of the later of the second of the se

temporal an el cre a sitemer derempendents al aposturio de abtervat un l'eta phore resimente pedramet dates de animants combé ca-

¿Y de qué sirve?

- his warp wide, I arks as respond a total month of a sadrence— he reads quo et a apour al express de provide a grante a grante, motes manglements puede a grante. May tarre ligh
- The companies of the policy and the contraction of the contraction of
- Que are come passed on de la contente de la content
  - Then have a complete applies
- files has topically be as a series where determine a construction of the series where the reserve question government at the files from the construction of the series o
- Les perturbecames canagine nu sommeters, so le se en primer de la la se en perturber acces del acces materes, per detarle me, ammercas l'actes to cap demoste aux el mayor them bistance hab a se promed acte mente e i tama de restance hab a se promed acte mente e i tama de restance despet de agran a d'empediant de la progration despet de agran a d'empediant de la composite de la co

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- -- ¿Porturbaciones patoreles? Colvió a proguatar éste con asombro. I leculpense, pero no comprendo. ¿Acreo puedos existis osgunes elettes
- tonus harms legrado orierar, and desvin r span estables in las lineas mandia en aurgen roto en tales reman del espacio-tiemper encies succes una les rea recuesors de la entrop a, the y pose probable deattre de la lamites le ten procesos probable deattre de la lamites le ten procesos probable deattre de la lamites.

— Ja) ves, me myn stentade mu in carnete la última hora seamb Backslev I odaven

sign ain compronder

Just son expaces de creat unos estadas para a ser estadas que se eco aja sen do una asu en lestada para a entre puedo de estada en entre estad

- Akoro ampiero a compronder. Cun e repala aras tivo miento dizacciona en terra e e t instalación tengos la que niciad de salvor

5 a.cm

- lass happing to controlled montrees do al remp-, block we metro have writtened minutes.

Harkálov so puso do pie-

- glas partito? Pero Resease Velerione

Matséev palidecto y so cara cambió de expre-

sión

- Imaginate que sumplemente na be persade en eso la serine he ocurrido tudos los pense mientos estatum concentrades en ustad
- c'uoue marcar la zone de la cetéstrofe? — fam una prec sión de lisata trasc entes ku fómetros de diámetro. Al sa el mapa en centro de la zone se hella en la región del apartadoro treinta y siste

- Todavia po lemos llegar a tiempol

— Serguei Nikolée, who we all Materov—

terse right mente si mara y vaya a la terrotrat

pres ver all respectation produpell testare na

utilitat appetit a consider di consumero es un

Toger hants of disperhed or prostpol cor of each is a superhed or prostpol cor of each of the party of the pa

It is despectived or private an assessment in the se-

- ha con ha che made de ma le misse de ante ente ante ente de mis de la marche de marche de la mar
- g for the last owner top to the property and the classical management of the classical
- the resource to a postulation and by that has been a second to be able to be a second to be a se
- ्रोड के सारा का का कर अधीर स्थापन का व्यक्ति है। स्थापन
- Un present de diregiros a los joins saper ores l'iso tadas a no les angués nu guns eries. Pero basta sa Herese

THE A RESIDENCE OF THE PARTY.

- Alter to to see on the season felomestes to the object of the last of the alter of the alter make programmed of traces of an employed. And year of the last measurement of profession cransmisses being at accom
  - g was a specific part and
- Le programa in al sin como es al solutiones el seguiro. Ni sono de a diverta lla conta la coma consigna-

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formation, to make the make as an in proclement of the process of the process of the second s

- (1) the companied
- A recommendation was go as a wind a please
- " who me is not a stranger of

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be restricted to produce the formation of the letter of no section of the formation of the section of the secti

I a correction acceptant to provide the eigenstant that was about purpose or an electric delication de acceptant to de la company of the electric delication and acceptant approved to the company of the electric delication and acceptant approved to the electric delication and acceptant acceptant

Hapter: Las I sent del paperte que cor un titodo seper en person esta de é. El esperen cando tentreto que encortraren el raterio e la casta como forque babia para e un los a finas hacas.

Large to the production of the density on the health and the large man design and the particle control of the terms of the particle control of the terms of the t

A new fragingly the semi-tal counts are a sure of a source of the series for the series persons persons and a semi-tal and a semi-tal a semi-ta

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I are all remaind from a term provings tool or printer, cuesta.

A real cold for and place a bit of from Expension

Frequency on the object to the second and the secon

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fun prevenua. There are received the second of the second of and a settlement Marriers and Inc. term of the Campagnets to the company of the com and the same of the same that the properties manufacture to make any part week place of the and the first of the second se Notes to the section of the section is seen to the decrease and temperature of the cold through where you at my to a first do no year, say which is an example promise the promise make the property of the first field the first parties a residence of a dispersion was a garden or a substitution or agree with the set of the set former The second of th a few read thought to property to a most on their coos eptimistas

Augus providents for assert the constant developed freezest providents of opening the fit to provide the constant of the providents of the constant of the con

The limit was against according to a second and decrease the according to a property of the second according to the second acc

modelle me e cope e sere produce e comparate e con la menta me e cope e sere produce e comparate e con la menta de cope de comparate produce e la menta de comparate produce e la menta de comparate produce e la menta de comparate que e comparate que en compar

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to be made a que a transper e 1 que en la susthe tipe of the second second second second second to the country of the two water passes pr a mare e d b d o c d . . . . . Country of the countr process from the authorized to the other to the first the second or a served provide a grant to a fact the fact of rand and the property of the first terms of the second war a stage committee the grants despread a tracker of the file of the has demand a ment and a second plantage of the property of the second of the second and a particular to the second state of rate to a rate to the contra the force of the contract of t and the second of the second of the second of a a segment a grant destaurant The product of the field of the second on the which the glob was a real or did did not did not a pro-And the second second back to a second A respect to proceed a part to be I down to see that and a special property of the second second

## EN VEZ DE CONCLUSIÓN

"La revolución se aplaza" (ciencia-fica ón)

El menudo disco del Sales puso muy bajo sobre e horizonte y como simpro, se hizo rejizo-violeta Para el ajo humano terrestre todo en esto planeto paracia no natural fero lo poer eran esas pessas color rejizo violeta que fastitiaban

Por le demás, todo este no le oprimia nada a Kloy. Durante dos años de la guardia cosmica, primera en su vida, él no perdió todavia el in-

terés por la insólito

Kley caminaba lentamente por in sendero que sulla a una casita de base. En las manos llevaba una propueña bila escura, ci yo tama- no era un poco mayor que el de la bolo de bi-llari.

Por fin, Kluy llegó hasta el zaguán y aubió pusadamante por la escalera Resuplando, como su hiciora un trabajo a ficil, o uno en el cuarto iterior cerró detrás do si la puerta do acoro y

puso la bola sobre el suelo.

La bolo comenzó a sonar lastimado y prolonga-Jamento.

Forry se movié en su cama.

- ¿De mievo has traico alguna porquería?
- alargo perezonamento sin nover la cabeza

Sito enten aquiti -dijo con entrefreno. Kley-- Lan prejarão quo us, poro pessiones vate-

there is a series of acres.

- Por que no estás abuerdo de burgar en esta basura? noté l'orry con el misme tono indiferente signiendo con la cara vacilità a la parad

Beenra? - so ind gnó Kley- , Fa que

cate le han dejado elles!

- In here more to temporque esto cetá unes tipado - prononce i Farry con i na vos que calmina-. Sen nocotros.

- Tal ves, so todo?

- le game dies -grifé Ferry - Qué clase de gente es ses

or volvio g miende y bajo los piet si bre et

医蜂 情化。

- Varage a ver

K loy so souch, lo y peso carrocsamor to la mano-

por la bola como si acariciare un gelico.

La bola resimente ter la un aspertu si so tebetaba hocha de un material actrato que do se parcula m a metal, ni à foi polimeros y ora casitracquere de paro a la vez no se pudia ver la que tenis de tre La superficte de la luia centellaba y trillaba de una manera extrata y sobre ella a serecian y decaparec an unos acabesces nublados

- ¿La ves?

- ¿Y que. - encogió inmutablemente de

hombros herry - the bole study stere

bree un apuchacen extrato Ferry — Kley arrogo la fronta, y sus copas oscuras y especas se universe so con el cabaman. Eta un un consequente de que emperaba a freitares— Pada la tector pi improntona...

- 1A sec en el mando ha a tedado todovia algo sos tren len es -- sons à ma telesamente l'erry bobre todo aque se este pranete obsides e per c'um de demus pa base a mbo que se lorgaron todos las indigenes

BLOY EN SS

No ha have mucho no tempo que tre o setá esp ca lo-susp. O ha y- hingunas en grante a sugaran senare toma. Neda que para a nacod y la imaginación.

procedure made ber mein nabe fera fet benebent nabe.

Klay so out to the placer autordisorio lim

brazos hacia los iadra y arriba.

- Y a mi me gasta agui...

- Jamiters 33 metets aut on a grat themps consents barry - Quantum verse despute de te quinta grand a Juria de pare

-184

- Però le sur metà bisa - Ilyo herry com reentermissión - Guarda te beta y termina a const

her prote y can in parters del sepate empept leveremente in h de trac e er creson e er casto,
den to ye se attactuable todo a serte de creso
) ere de reporte le here die un minide y se metab
pres pue lemente habe le case : esc di seco ser
her si e sia un merden grage conjultant me ti sepate
des frorty, en dra seltes se secont o certa de se
plierta.

— pleasetat — on the spin maken by any — ight me me

una mina?

- No parece dips (matutablements Kley.

- Li unado se mase -- grund ferry merendo con result a to came, ha a to cash seguin artisdese al a là da y chisperro'se artisano- ¿ ¿ ad quieres que hagemas que ésta?

- than to common terms protest a tember.

as bobs. Perc. sage to in in tranquistics.

Il minera pues e poce beró.

- Abore been disc con firmese Ferry . 14. deal lo code Quieras o no, la lieve er seguido as deposito. As port nas trop in o

eo acerró a la caute so arro killó, extend ó e mi-

telesamente la grane y tomé la bola.

No paso nada Entonces Forcy tiro de la sela Pero ésca como si estoviera de prantón

auted des oldarh leb sauce but

No quieco ir al deposito aour o Niev La triba compo respondinguis a ses petalente. a a repente sa tó a escapo, posó por debajo de lo ruono do Forry se meserco rodendo a los pies de Kley, se fre é, como se le histora carteras, centrasu zapata y de nuevo se coló rápidamente bajo. la cama.

- Oye, Ferry - progent 5 penset vame its Kley-, y at esto ....

– ¿Qué?

- ¿Y si ce .. recional? - Tonteria. Los hab tantes de este planeca eran de dos piernas y dos manos uni como elhombre hate está establecia e con seguridad.

A mi me parece que a go comprende .

Meior deia, a en paz-

- Buss -se rise o herry - Que so quede.

aquf.

k mpezó a preparar la cena, echan lo de trempoer are more managag cambelosas on it execut a la came. Pero la la a se pertaha tranggilaman-

2 Oué tenemos hov? --se interesé Kley sen-

catulosu a la masa.

- De primer plate el plate número treco quebrado tres-comenzá Ferry-, el segundo Dinto.

Kiey se fruncie dolozosamenta.

- De suevo te atras ceta docena del fraile... ¿Erea supersticioso? - progunto ferry ...... Es el mensar mas delicado.

- lemmes a day, Forty Es que co nomos est quel ra la un cas si y atra por cauctamente los dias de ta guardia

- It's senior desemble on business all war to

quiera con sangre?

k ey gerb los opes imag notivamente.

— La mitro de la galas a por un poraco do cerno

- Mira - com ozó herry, pere de sepcient se atragantó y clavó la morado lapero la ousa-... Iqué diablo!

Kiev tear ten miré la mesa y se puso els piè

deja mu caur con estrepito el taberete

Dela tie de ét esta la solute e, plata un une me pedazo de carre bien asada exalação de correbto provinciados

there exists he featam with all bisses y con clumber their cantellossements of history a returnance.

Corne.

Tentucion Atomo puede haber aqui corne?

- Pan I see - no Klay- pero es carne.

Sach una mivaja y sestentende el listre con a mano izquierda, corco cuidacontinenta ana peq ena loncha. En el corto sangro un liquido rondo hitey unganchó al polari contado con a punta cola navaja y lo sessece a la bora Moril o con precancion. Tras ado con la longua de una ramilha a nero y e mienzó a la asticar con aspecto ensimismado...

¡Diable, se carnel -grate 6: - Verdaciera

corn d

Ferry quien la observat a la majo nyisor, son-

glarmor Maktato planeta Silo aus faltum

al Kingsiones hare saiar felices dol todo

- Al dat lo con alucatación del —ensedé es dien es klas — Le ligo que es un litates. Y además exemple. ¿Acase estas ciego, no lo ves?

- Pura lo ven ... ¿Y quố temporte? La una tru-

sión entica. No pueste imaginarse alguna etra-

Alto general Hamman Printermone in Special and

Kiny tend o la mayers, on sa punta se a cual-

expends of periosa de aretec.

palpe cantalons monte varias vares in tarios com flos dedos.

- change representation by the

rentin do que todo ente no es una alacidario el Riero. La coste en 14 hecara se un tel Riero.

Atem Forey ya quito la come de la manaja. Atamicaka instamata, chasquesido la Joaque

y us wer on county terments of all rate.

- Te has convencido?

berry so surce a do humated.

- gale on 7 his reasoned your he section.

Algo contents of in langua, of solver a car is personal to the company of solvers and in managements to a suppose to the personal transfer of the section and solvers.

A lev mité ban care a la

- Carmente viene. Ma pose and make a ser-

Appearance of tabletote a se made y comments a decrease transportant to a series and to a series and a series

- He stop detectors days below a schemely con-

e. bistec.

- Pro to legar no me always a rel some

Para que? en te preno o Nacy ... Estoy llang ya.

the est pure for the shorter, on research were removed the est, pur to moving treasure pures called the

folder many a herar com lastoma-

- i gues e semana que ante podesa co carino de una liquión? - Par in marrie maio de 27 que etre case puede

a manage has die a was les tentimes peprovides may r to ormide. Fore makey hatro-

— La marced per complexation a growth was first

ero puede ser ilusoria.

Period bistoc ha mile real de tota

- I to you process a come - preg at a corr

- One was give you a self.

actually accept only did. The man part of Acid with all also parameters are to an includer the department of the department of the state of per as the current for one mistace

No en acopuna esculara. La puracar antas head a segret on salvage, postune to be obvious do

Eine aber m.

The freeze goe yet h makes?

- Termita I man que vez, cala que la presenallegane as to the national last the series of a process. enter so an les proposa à au par el fil mor him gulan a return 't nige on trans and do him me
- bus against -as the sales designed for review of army allocates been most touchers also a see year All you go more on reasons of the markets had on the last it where how a face of law produced both or to be seen a prompts on all we as prigning without a mornal const mul. Prácticamente es caro

to I special passes to abstract manufacture it was no harmon on treatment of the old fraction for many to be given an early to

tal como me le imaginé.

Vann en d'Enteraces la pres dive?

a fell was a figure to the property rived her married has been by the programme for the Compagner is discompanies acut the season

— No composta d'esta un su poster le de obsident

los pecados a lá misme.

there werehold belie no so homor as lagran-

- dutenta pufar -- so min u folice

- I requé no - dipa dennesce aj ademinite filley. taimade atrocader . Que peorie nventer?

The ignal — her year or an entablish as seen as the bilance of the entable of the interest delication per sente of a particular tente. () here the capacitation is because of the interest of the capacitation of the interest of the capacitation of the interest of the capacitation.

- Espara transmission Klay-, so use a lea-Er to describble communicate for openy many a horry

- Ande vamos a probar. Que la butaca on in tua maine sur tado, dejo de painter :

No pese mada.

- film fracasa to melagrero de pacocera - ref.

Forry

Do so whom he docks y emperó a agrade on permittimente ya que e e la misca pasalla algo estrato. Sa l'esce levermentamente como o entre policien de dibilida administrativo, curo con insuperativo de la partir como se i era un caballa terco y emperó a desvanacemo.

) but grite herry, pero ya era tarde La butaca desaparence defin tragmante y e. enya ren entre, do sebre e. a seto

- Atire ase . stargo h ey.

- ¿Quá bur as tau bo ma? - se or fu = 15 Perry. Instanto el costa maga ludo.

Kley ya velvić en m.

¿Acaso ha pasado algo?

- ¡Vaya and preguntal

- Ah te has ca de, te has ge prece. I ere

son principality to senses was ...

Fero do broment — equipo emperar herry, pero do calió unicardo al higar dendo nechaba de estar la hutura—, hon como de orojas.

- As no - note autofactorements Khy y

eniquiló la mese.

Forry sole dajo shume.

A cv ye tomo el guaso. Frast de la mana aniqualé un tebresto después otro luego la mesta creendo después de nuevo el tabusete.

- Estas intellerente privario de factas a eto es a que para Aniquitaste-treaste se quibaste co-said, pareces una criatura Por Im, esto se bace autimoto

- Dentro de cada uno de a metros viva qua

creature digo kloy

De todas maneras, habit respectido aventar.

algo más i steresante.

nede par v de be souve com la varia mégica continuale R cy ma escuebart. More, al parmer, la sengo, peri por desgracia, na puoce invon ar nede. En mi inime a se hu tenido talos juguetes.

- Para ti son luguetes -gru if herry- y para

rq f

In qué dica tu quer da lògica? no se para-La lenge. Ha parado algo contrario a tedra les leges con es sel? ero a tadas las leves va son conocidas, como afirman ciertas personas hay que acoptar que existe salgos que es superior a las loyes. ¿Qué dirás?

- I are give the semipartic. -d jo com sinu some

bris Ferry.

— ¿Qué? —as sorpendio klay—. ¿Lo dicas en serio?

· No estoy para reir, Kley.

Touteries or rio klay Supplements al

guna nueva paradoja

Vava una parad je "El mitacrero de Miev? ¿I d vez, cecub ras una lorm inc it asta ya Regrece a la lierra y me buga un misumoro Volaré a los pianetas contacto a sobre os milagros. Es llevaré com go un vez de material didáctico.

- ¿Per que no -- dipo Klay penténdose en jarras.............. No te heneré de aprob o. -- eso tandinés

time recorder man rarements at diable

 Tallyca exemptable exist of all to gCarmo in same?

No to se menta let y destruce per preanto frastancia busa

finite tailty grown to been

have amplements that a surregulation to the Clara news a position in quality we us have been excluded

the supported that is a state pastument of the central pastument of the contral pastument of the contral pastument of the contral pastument is a state of a further pastument in the contral pastument of the contral pastume

- . da . ivo el tribujo" pergini i ol-

I'l cales de concencia de compatitac in orcidantamente en el corolli des bate ou i corre et mala la norda e dil decem i erdet al restrandamente i ma metri e media, e a a raza manda disconsidarente en tarta sa mantamen calendarente en en elmerti, en a) parto mantallo l'aparde cargo y pro matado de poren i verde

and glass of works operation sets." (stag set a total

fuznmente Kley

- On the incorporate terestering of super-

Por la degrada con familiés do pues o ser unit

negación

peressiparmer of a la lors. Areas esta estimó 6]—, tiongo una ideal

kliv se matro a la tio a cas, ni v pozede

- Steen es este - prominero passar di -, que d'antarezan

hiev no volvio para gracias a nua calierano el cuarto estolia cam vacia. Lor un natante en mirada na para en Perry. En las cipis ca Klay bailaren unas obsepta inaliciosas

Drip de a su musto sercimento Ferry - 21 que importar -- ciso inocontemente.

Mo creaces. Int come me cassinas l'erosera no Perry completamente diferente No-

détamo en pus

Que son est -peret e em fatterence icia bicy - Entorious at vely a do misso a a hola — su en o ha sulo a cesta, que aparesca de nuevo-

Lin mean oparecto or e in sens fratalite.

- Al ora tip, her normets per acturer que alguilles mos l'espe se maire pager es juego sor e cual ma entualasma, a en la liberc.a advance cuardo la repordia solo con esse O KNOD.

- No cuesto ini cho trebije ach carlo-notô. Firey Alegyasa e ciarto y se piero al asta de

K cv.

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tigacienes astronómicas desde a hordo de los aparates cósmicos abre unas perspectivas muy prometedoras. Ya hemes hablado del papel importante que desempeña la determinación del valor de la densidad media de la materia para el desarrollo de nuestras neciones de la evolución del Universo. Una aportación considerable en la solución de este problema pueden hacer las investigaciones transatmesféricas en los diapasones infrarrojo y de rayos X de las endas electro-

magnéticas.

Existe también, en principio, la posibilidad de la determinación directa de la densidad media de la materia; a partir de la magnitud del campo newtoniane. Vemes cualquier objeto cósmico prolongado, por ejemplo, una galaxia, baje cierto angulo. Y el valor de ese angulo depende de la distancia: cuanto más lejos está situado el objeto que se abserva, tante menor es esc ángulo. Si en el espacio entre el observador y el objeto a observar existe una materia, entonces, de acuerdo con la teoría general de la relatividad, los rayos luminosos deben eurvarse. Partiendo del valor de la curvatura puede evaluarse la cantidad de materia en el espacio entre el observador y el objeto. Pero, para calcular la densidad media basándose en osos dates, hay que saber además medir exactumente la distancia hasta las galaxias lejanas. Acabamos de hablar sobre una posibilidad de solución de ese problema. Pero existe también otro camine: la medición de las distancias con ayuda de radiotelescopios puestos en óchitas cósmicas y situados lo suficientemento lejos unos de etros. Hoy día, después del experimento con el desplisque del radiotelescopio KPT-10 en la estación orbital soviética «Saliat-6». la posibilidad técnica de realizar tules investigasiones parece totalmente real.

Sucede la acumulación vartiginosa do nuevos materiales de las observaciones astronómicas, nuevos heches. La impresión es que la acumulación cuantitativa debe provocar de un momento a otro el salto cualitativo de turno en nuestros conocimientos sobre ol Universo, en la comprensión de la física de los procesos cósmicos. Tal vez, no tardará mucho en llogar.

## ANUESTROS LECTORES:

elita libros soviéticos traducidos al español, inglés, francés, árabe y otros idiomas extranjeros. Entre ollos figuran las mojores obras do las distintas ramas de la cioneia y la tienico: manuales para los centros de enseñanza superior y escuelas tecnológicos; literatura sobre ciencias naturales y médicas. Tumbién se incluyen monografías, libros de divulgación científica y cioneia-ficción.

Dirijan sus opiniones a la Editorial Mir. i Rizhski per., 2, 129820, Moscú,

1-110 GSP. UBSS.

## MIR PUBLICARA:

M. MAHOV

PLANETAS DEL SISTEMA SOLAR

Este libro narca acorca de una de las ramas de más impetueso desarrollo y do extraerdinario interés dentro de la ustrofísica, sobre la investigación de los planetas del Sistema Solor. En las últimas décadas esta rama experimentó con especial intensidad la influencia favorable de los métodos y medios más modernos, descubiertos sobre todo gracias a la utilización do la técnica cósmica y enheteril.

El autor examina los planetas, comparando sus principales propiedades naturales, parámetros de sus mevimientos, superfície, estructura interna, propiedades física de sus atmésferas y la meteorología. Tombién se mencionan elertos problemas comunes a la cosmología de los planetas, historia del desarrollo térmico y ovolu-

ción climatica.

El libre se base en un abundante material cientifico, obtenido de investigaciones realizadas per especialistas seviéticos y extranjeros, que incluyen les resultados obtenides con ayuda de aparatos cosmicos, las
mediciones ópticas y radioastronémicas realizadas desde
la illerra, así como la generalización de estes datos
dentro de los marcos de modelos teóricos. La obra contiene además un gran número de ilustraciones, entre
las cuales ocupan un lugar especial las fotografías de
les planetas y son satélitos, con imágenes muy nítidas.

Esto libro resultará de interés para todos aquellos que son aficionados a la astronomía, geofísico, investigaciones cósmicas. La obra es fácilmente comprensible para los lectores con un nivel de aducación do escuelas

do enseñanza media,